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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/576,501

04/20/2006

Yoshiharu Sato

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7590

08/19/2010

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EXAMINER

LEWIS, TISHA D

ART UNIT

PAPER NUMBER

3655

NOTIFICATION DATE

DELIVERY MODE

08/19/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/576,501	<b>Applicant(s)</b> SATO, YOSHIHARU	
	<b>Examiner</b> TISHA D. LEWIS	<b>Art Unit</b> 3655	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 10-12 is/are rejected.
- 7) ☒ Claim(s) 7-9 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

### **DETAILED ACTION**

The following is a first action on the merits of application serial no. 10/576501 filed on April 20, 2006.

#### ***Priority***

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### ***Information Disclosure Statement***

The information disclosure statement filed 4/20/06 has been considered.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Murata 5213186. As to claim 1, Murata discloses an engine power transmission device having an engine (1) which is controlled by a throttle, a torque converter (3) which transmit a power of the engine to a load device (4), a clutch (8, 9) which is provided between the engine and converter and is capable of controlling a transmission torque transmitted thereby, a throttle actuation device (column 8, lines 21-28) which actuates the throttle, an engine rotational speed detector (10) which detects a speed of the engine, a clutch actuation device (12) which actuates the clutch and controls transmission torque and a controller (Figure 4) which in response to the engine speed

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detector, commands the clutch actuation device so as to control the transmission of torque by the clutch according to the engine speed. As to claim 2, further having a throttle opening amount detector (52) which detects opening amount of the throttle wherein the controller in response to the engine speed detector and throttle detector, commands the clutch device to control transmission of torque by the clutch according to the engine speed and throttle opening. As to claim 10, Murata discloses an engine power transmission method for transmitting a power of an engine (1) to a torque converter (3) via a clutch (8, 9) which is capable of controlling a torque transmission ratio by controlling the engine in response to a throttle and actuating the clutch so as to control a transmission torque transmitted thereby according to an engine speed (Figure 4).

Claims 1, 3-6 and 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Coffman et al 5380257. As to claim 1, Coffman discloses an engine power transmission device having an engine (14) which is controlled by a throttle, a torque converter (20) which transmit a power of the engine to a load device (46), a clutch (64) which is provided between the engine and converter and is capable of controlling a transmission torque transmitted thereby, a throttle actuation device (154) which actuates the throttle, an engine rotational speed detector (112) which detects a speed of the engine, a clutch actuation device (170) which actuates the clutch and controls transmission torque and a controller (78) which in response to the engine speed detector, commands the clutch actuation device so as to control the transmission of torque by the clutch according to the engine speed. As to claim 3, wherein the clutch

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is actuated so that a torque transmission ratio in a lower rotational speed region amount becomes smaller than that in a higher rotational speed region (Figure 3 discloses when clutch pressure is below 1200 rpm, it is at a minimum pressure A which is smaller than a pressure B above 1200 rpm). As to claim 4, wherein in the lower region, the clutch is actuated so that the ratio increases along with an increase in the engine speed (Figure 3 discloses the pressure A increasing to pressure B when engine speed goes above 1200 rpm). As to claim 5, wherein in the higher region, the clutch is actuated so that the ratio becomes constant (Figure 3 discloses B being constant at 1400 rpm). As to claim 6, wherein in the higher region, the clutch is actuated so that the ratio becomes 100% (Figure 3 discloses pressure B being constant at 1400 rpm which indicates full engagement of clutch). As to claim 10, Coffmann discloses an engine power transmission method for transmitting a power of an engine (14) to a torque converter (20) via a clutch (64) which is capable of controlling a torque transmission ratio by controlling the engine in response to a throttle and actuating the clutch so as to control a transmission torque transmitted thereby according to an engine speed (Figure 3). As to claim 11, wherein in the step of actuating the clutch, the clutch is actuated so that a torque transmission ratio in a lower rotational speed region amount becomes smaller than that in a higher rotational speed region (Figure 3 discloses when clutch pressure is below 1200 rpm, it is at a minimum pressure A which is smaller than a pressure B above 1200 rpm). As to claim 12, wherein in the lower region, the clutch is actuated so that the ratio increases along with an increase in the engine speed (Figure 3 discloses the pressure A increasing to pressure B when engine speed goes above 1200 rpm).

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Claims 1, 2 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Murasugi 4720003. As to claim 1, Murasugi discloses an engine power transmission device having an engine (column 2, line 33) which is controlled by a throttle, a torque converter (1) which transmit a power of the engine to a load device, a clutch (16) which is provided between the engine and converter and is capable of controlling a transmission torque transmitted thereby, a throttle actuation device (Figure 6) which actuates the throttle, an engine rotational speed detector (Figure 7) which detects a speed of the engine, a clutch actuation device (31) which actuates the clutch and controls transmission torque and a controller (Figure 7) which in response to the engine speed detector, commands the clutch actuation device so as to control the transmission of torque by the clutch according to the engine speed. As to claim 2, further having a throttle opening amount detector (Figure 6 and 7) which detects opening amount of the throttle wherein the controller in response to the engine speed detector and throttle detector, commands the clutch device to control transmission of torque by the clutch according to the engine speed and throttle opening. As to claim 10, Murasugi discloses an engine power transmission method for transmitting a power of an engine to a torque converter (1) via a clutch (16) which is capable of controlling a torque transmission ratio by controlling the engine in response to a throttle and actuating the clutch so as to control a transmission torque transmitted thereby according to an engine speed (Figure 7).

***Allowable Subject Matter***

Claims 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

-Evans et al 5509520, Mitchell et al 5040648, Murano et al 5022287, Woody et al 3831726, Michell et al 3074524, Matsumura et al 6656090, Adachi et al 6132336, Tibbles 5417621 and Yamaguchi 4718525.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TISHA D. LEWIS whose telephone number is 571-272-7093. The examiner can normally be reached on M-F 9:30AM TO 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Le can be reached on 571-272-7092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tdl  
/TISHA D. LEWIS/  
Primary Examiner, Art Unit 3655  
August 13, 2010